July 31, 2017

Wisconsin Department of Natural Resources
Ms. Nancy Ryan
Remediation & Redevelopment Program
2300 N. Martin Luther King Jr. Drive
Milwaukee, WI 53212

RE: Additional Sampling Results and Resubmittal of the No Action Required Request for the Property Located at 5611 West Hemlock Street in Milwaukee, Wisconsin — FEC Project No. 170205; DNR BRRTS # 02-41-579085

Dear Ms. Ryan:

Friess Environmental Consulting, Inc. (FEC) conducted additional investigation following the DNR review of our no action required (NAR) resubmittal dated May 3, 2017. As you are aware, a responsible party (RP) letter was issued for the site on March 21, 2017. This letter presents the results of the additional site investigation and again requests a NAR determination, based on the results.

Project Background

Phase I and II ESAs were conducted by the Weaver Consultant Group (Weaver) for the above referenced site. The Weaver Phase I ESA revealed no evidence of *recognized environmental conditions* (RECs) in connection with the property except for the use of the property as a waste TSDF since 2003 and a 2007 notification to the DNR of potential impacts as a result of a fire incident. Assessment and investigations were conducted in response to the DNR notification and a No Further Action Letter was issued by the DNR September 19, 2007. The Phase I did not indicate areas of spills or staining. All drums and containers were labeled and in good condition without any notable staining or leaks. In addition, the buildings were constructed with concrete berms separating each room in the event that a spill would occur. The Phase I did indicate filling and grading activities were apparent on the 1969 aerial photograph prior to the construction of the building.

The Phase II ESA was conducted in February 2017 by Weaver. Five soil borings (SB-1 to SB-5) were conducted at possible areas of concern observed during their Phase I ESA and soil and groundwater samples were collected and submitted for analytical testing. Nine soil samples and one groundwater sample were tested for volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs), RCRA metals and polychlorinated biphenols (PCBs).

The results of the soil analytical testing for RCRA metals and PCBs were non detect and/or below the DNR residual contaminant levels (RCLs) for the protection of groundwater and direct contact. Arsenic was detected in all

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samples but the results were below the 8 ppm “background” concentration referenced in RR-940.

The results of the soil analytical testing for VOCs were non detect and/or below the DNR residual contaminant levels (RCLs) for the protection of groundwater and direct contact with the exception of a low level concentration (8.2 ppb) of tetrachloroethelene (PCE) in the shallow soil sample collected from SB-4 from 1-2 feet bgs. The concentration slightly exceeded the RCL for the protection of groundwater. A groundwater grab sample was collected from SB-4. The results of the groundwater analytical testing also indicate no detectable concentrations of VOCs. As such, the low level detection of PCE in the soil has not impacted groundwater quality and did not warrant additional investigation.

Several PAHs were present in the shallow soil samples that were collected from 1-2 feet bgs in the soil boring above the DNR residual contaminant levels (RCLs) for the protection of groundwater. PAHs were not detected in the groundwater sample collected from B-4. No PAHs above the DNR RCL for the industrial direct contact were present in the soil samples collected except the benzo (a) pyrene concentration from 1-2 feet bgs in the soil borings B-1 and B-5.

FEC reviewed the project documentation and believed that the detections of PAHs were associated with the fill and not a spill or release of hazardous substances. As such, a no action required (NAR) request was submitted to the DNR on March 6, 2017 for their review and concurrence. The DNR requested additional sampling and issued an RP letter on March 21, 2017.

On March 29, 2017, six additional soil probes (P-1 to P-6) were conducted to evaluate the extent and significance of the initial detections. The soils encountered at the probeholes consisted of gravel or asphalt in the surficial soils underlain by up to 1 foot of recycled asphalt and brown silty clay fill to depths of 0 to 2 feet below ground surface (bgs) at the locations of P-2 and P-3. The fill soils are underlain by native silty clay to a depth of 10 feet bgs. Field indications of impacted soils (odors and PID readings) were not apparent in any of the soil samples collected during the field sampling and screening. Groundwater was not encountered and is anticipated to be a depth greater than 10 feet bgs.

P-3 was conducted in the immediate vicinity of SB-4 which had the initial low level concentration (8.2 ppb) of PCE in the shallow soil sample. SB-4 and P-3 were advanced in the area of the loading dock and empty drum storage on the east side of the building and was considered a likely area for VOC impacts to exist. The results of the additional VOC soil analytical testing from P-3 did not indicate concentrations of VOCs, except 1,1,1-TCA, which was at a level below its RCLs.

Several PAHs were detected in the soil samples collected from P-1 and P-2 that were above their respective RCLs for the protection of groundwater and/or direct contact. These PAH detections were located within the fill soils; no PAHS above RCLs were detected in the native soils directly beneath the fill or in the shallow

soil samples collected from P-3, P-4, P-5 or P-6. FEC believes that the initial detections of PAHs at SB-1, SB-3 and SB-5 are limited and attributable to the recycled asphalt.

Based on the results of the additional testing, a no action required (NAR) request was resubmitted to the DNR on May 3, 2017 for their review and concurrence. The DNR reviewed the submittal and in their letter dated May 31, 2017, requested additional sampling to better delineate the areas of the initial impacts, further discuss the source of the impacts and/or confirm that no significant impacts are present.

Additional Soil Sampling

On June 30, 2017, seven additional soil probes (P-7 to P-13) were advanced in areas specified by the DNR (SB-1, SB-4 and SB-5). Sampling locations are illustrated on the revised Figure 2, which includes approximate bar scale. Continuous soil samples were collected for field screening with a PID, visual classification and potential laboratory analyses. The soil probe logs with PID readings are included. FEC submitted a soil sample from various locations and depths to a DNR-certified laboratory for analyses of VOCs and PAHs.

The results of the soil analytical testing did not indicate concentrations of VOCs in the soil samples submitted for analytical testing from P-7 and P-8 collected from depths of 1-2 and 4-5 feet bgs. These results confirm that the initial VOC detections in the area of the loading dock and empty drum storage on the east side of the building are limited. In addition, the results of the groundwater analytical testing from SB-4 did not indicate any concentrations of VOCs. Based on the soil and groundwater testing, no additional investigation or actions are warranted.

The results of the additional soil analytical testing did not indicate concentrations of PAHs in the fourteen soil samples submitted for analytical testing from P-7 to P-13 collected from depths of 1-2 and 4-5 feet bgs. All results were below their respective RCLs for the protection of groundwater and/or direct contact. FEC believes the previous PAH detections are attributable to the fill soils/recycled asphalt and are limited in extent. No PAHS above RCLs were detected in the native soils directly beneath the fill. The additional analytical results are summarized on the attached tables and the analytical report is included with this letter.

Conclusions

As requested, FEC conducted additional sampling to better delineate the areas of the initial impacts. The additional soil sampling has confirmed the limited nature of the impacts and evaluated the potential risk to groundwater. The PAH impacts are attributable to the recycled asphalt within the fill, are limited in extent, have not impacted the underlying native clay soils and do not present a risk to groundwater.

The additional soil sampling has confirmed the limited nature and extent of the initial VOC detections in the area of the loading dock and empty drum storage on the east side of the building. Based on the results of the soil and groundwater testing, no additional investigation or actions are warranted.

Owner understands that proper management during future development or disturbance of the waste material will need to be taken into consideration. Based on the results of the Phase I and II ESAs and the additional investigations conducted by FEC, FEC has been requested to again resubmit the NAR request to the DNR

Please provide a no action required (NAR) determination. We appreciate your assistance with this request. If you have any questions or comments regarding this submittal, please contact us at (414) 228-9815.

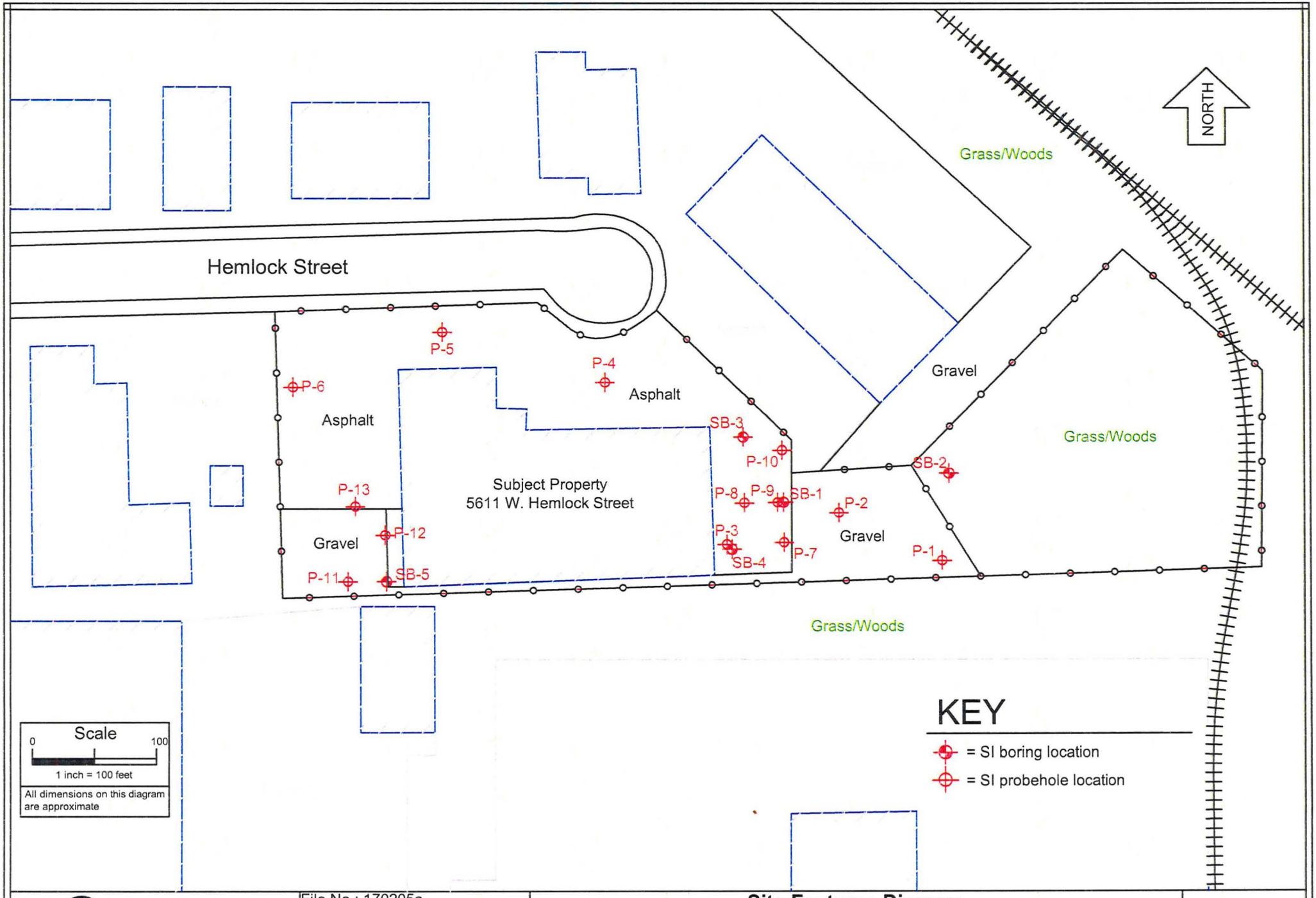
Respectfully,

Friess Environmental Consulting, Inc.

Trenton J. Ott
Project Manager

Richard W. Frieseke, P.E.
President

170205g



FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.: 170205a	
DWG Date: 7-4-17	
Rev Date:	
Drawn By: TJO	
Checked By (PM): TJO	

Site Features Diagram
Badger Disposal Property
5311 Hemlock Street
Milwaukee, Wisconsin

Figure
2

Table 1
VOC Analytical Results
Badger Disposal Property
Milwaukee, Wisconsin

Sample Location	Sampling Date	Benzene (ppb)	Ethyl-benzene (ppb)	Methyl tert-butyl ether (ppb)	Naph-thalene (ppb)	Tetra-chloro-ethylene (ppb)	Toluene (ppb)	1,1,1-Trichloro-ethane (ppb)	Combined TMBs (ppb)	Total Xylenes (ppb)
B-1: 2-3 FT	2/2/2017	<0.48	<0.90	<0.55	290	<0.64	<0.47	<0.63	<1.39	<1.20
B-1: 11-12 FT	2/2/2017	<0.48	<0.90	<0.55	<5.60	<0.64	<0.47	<0.63	<1.39	<1.19
B-2: 1-2 FT	2/2/2017	<0.62	<1.20	<0.71	<5.70	<0.82	<0.61	<0.81	<1.78	<1.54
B-2: 10-11 FT	2/2/2017	<0.47	<0.89	<0.54	<5.50	<0.63	<0.47	<0.62	<1.37	<1.18
B-3: 1-2 FT	2/2/2017	<0.54	<1.00	<0.62	<26.0	<0.72	<0.53	<0.71	<1.55	<1.35
B-3: 8.5-9.5 FT	2/2/2017	<0.52	<0.97	<0.59	<5.80	<0.69	<0.51	<0.68	<1.49	<1.29
B-4: 1-2 FT	2/2/2017	<0.58	<1.10	<0.67	32.0 J	*8.20*	<0.57	<0.76	<1.67	<1.45
P-3: 4-5 FT	3/29/2017	<30.0	<35.0	<50.0	<94.0	<32.0	<32.0	100 J	<57.0	<116
B-5: 1-2 FT	2/2/2017	<0.53	<1.00	<0.61	<57.0	<0.71	<0.53	<0.70	<1.53	<1.33
B-5: 8-9 FT	2/2/2017	<0.50	<0.93	<0.57	<5.70	<0.66	2.80	<0.65	<1.43	<1.24
P-7: 1-2 FT	6/30/2017	<30.0	<35.0	<50.0	<94.0	<32.0	<32.0	<30.0	<57.0	<116
P-7: 4-5 FT	6/30/2017	<30.0	<35.0	<50.0	<94.0	<32.0	<32.0	<30.0	<57.0	<116
P-8: 1-2 FT	6/30/2017	<30.0	<35.0	<50.0	<94.0	<32.0	<32.0	<30.0	<57.0	<116
P-8: 4-5 FT	6/30/2017	<30.0	<35.0	<50.0	<94.0	<32.0	<32.0	<30.0	<57.0	<116
NR 720 Groundwater RCL		*5.1*	*1,570*	*27*	*658*	*4.5*	*1,107*	*140*	*1,382*	*3,940*
NR 720 Non-Industrial DC RCL		*1,600*	*8,020*	*63,800*	*5,520*	*33,000*	*818,000*	*640,000*	*219K/182K*	*260,000*
NR 720 Industrial DC RCL		*7,070*	*35,400*	*282,000*	*24,100*	*145,000*	*818,000*	*640,000*	*219K/182K*	*260,000*

Note: Only the detected compounds are presented.
Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics* .
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are <u>underlined</u>.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].

Table 2
PAH Analytical Results - Soil Samples
Badger Disposal Property
Milwaukee, Wisconsin

Sample Location	Sampling Date	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
B-1: 1-2 FT	2/2/2017	1,100	80.0	3,300	6,000	[5,500]	7,800	4,400	11,000	6,000	480	8,900	1,500	3,500	130	160	290	11,000	25,000
B-1: 11-12 FT	2/2/2017	<6.60	<4.80	<6.10	<4.90	<7.10	<7.90	<12.0	<11.0	<10.0	<7.10	<6.80	<5.10	<9.50	<8.90	<6.70	<5.60	<5.10	<7.30
B-2: 1-2 FT	2/2/2017	<6.70	5.70	9.70	58.0	75.0	110	40.0	44.0	75.0	<7.20	140	<5.30	37.0	<9.10	<6.90	<5.70	54.0	120
B-2: 10-11 FT	2/2/2017	<6.40	<4.70	<5.90	<4.80	<6.90	<7.60	<11.0	<10.0	<9.70	<6.80	<6.60	<5.00	<9.20	<8.70	<6.50	<5.50	<4.90	<7.00
B-3: 1-2 FT	2/2/2017	<31.0	<23.0	42.0	200	490	440	460	120	340	<33.0	340	27.0	160	77.0	120	<26.0	350	790
B-3: 8.5-9.5 FT	2/2/2017	<6.70	<4.90	<6.30	<5.00	<7.30	<8.10	<12.0	<11.0	<10.0	<7.20	<7.00	<5.30	<9.70	<9.20	<6.90	<5.80	<5.20	<7.40
B-4: 1-2 FT	2/2/2017	27.0	7.00	50.0	240	490	360	780	98.0	360	80.0	270	39.0	150	110	190	32.0 J	380	1,000
B-5: 1-2 FT	2/2/2017	130	<49.0	330	2,400	[2,500]	4,000	1,900	1,400	2,500	<72.0	3,700	85.0	1,400	<90.0	<68.0	<57.0	1,400	11,000
B-5: 8-9 FT	2/2/2017	<6.70	<4.90	<6.20	<5.00	<7.20	<8.00	<12.0	<11.0	<10.0	<7.20	<6.90	<5.20	<9.60	<9.00	<6.80	<5.70	<5.20	<7.40
P-1: 1-2 FT	3/29/2017	<15.1	<15.9	15.9 J	50.0	46.0	69.0	35.0 J	23.9 J	49.0	8.40 J	105	<17.9	28.8 J	<20.3	<11.3	<15.3	45.0	81.0
P-1: 4-5 FT	3/29/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-2: 1-2 FT	3/29/2017	19.4 J	<15.9	116	380	370	540	274	191	420	65.0	870	28.8 J	225	<20.3	<11.3	<15.3	320	770
P-2: 4-5 FT	3/29/2017	<15.1	<15.9	<10.9	14.3 J	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	23.6 J	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	18.1 J
P-3: 4-5 FT	3/29/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-4: 1-2 FT	3/29/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-4: 4-5 FT	3/29/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-5: 1-2 FT	3/29/2017	<15.1	<15.9	<10.9	14.3 J	<11.3	14.8 J	<11.4	<14.7	14.3 J	<7.80	35.0 J	<17.9	<11.4	<20.3	<11.3	<15.3	17.3 J	21.7 J
P-5: 4-5 FT	3/29/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-6: 1-2 FT	3/29/2017	<15.1	<15.9	<10.9	14.6 J	<11.3	17.1 J	<11.4	<14.7	16.4 J	<7.80	47.0	<17.9	<11.4	<20.3	<11.3	<15.3	32.0 J	34.0 J
P-6: 4-5 FT	3/29/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-7: 1-2 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-7: 4-5 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-8: 1-2 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-8: 4-5 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-9: 1-2 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-9: 4-5 FT	6/30/2017	<15.1	16.7 J	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-10: 1-2 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-10: 4-5 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-11: 1-2 FT	6/30/2017	<15.1	<15.9	<10.9	12.4 J	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-11: 4-5 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
P-12: 1-2 FT	6/30/2017	<15.1	<15.9	15.6 J	23.3 J	14.0 J	17.9 J	<11.4	<14.7	18.0 J	<7.80	44.0 J	<17.9	<11.4	<20.3	<11.3	<15.3	37.0	39.0 J
P-13: 1-2 FT	6/30/2017	<15.1	<15.9	<10.9	<11.6	<11.3	<13.0	<11.4	<14.7	<12.1	<7.80	<14.7	<17.9	<11.4	<20.3	<11.3	<15.3	<11.1	<15.3
NR 720 Groundwater RCL		**38,000*	**700*	*196,949*	**17,000*	*470*	*479*	**6,800,000*	**870,000*	*145*	**38,000*	*88,878*	*14,830*	**680,000*	**23,000*	**20,000*	*658*	**1,800*	*54,546*
NR 720 Non-industrial DC RCL		*3,590,000*	*NS*	*17,900,000*	*1,140*	*115*	*1,150*	*NS*	*11,500*	*115,000*	*115*	*2,390,000*	*2,390,000*	*1,150*	*17,600*	*239,000*	*5,520*	*NS*	*1,790,000*
NR 720 Industrial DC RCL		*45,200,000*	*NS*	*100,000,000*	*20,800*	*2,110*	*21,100*	*NS*	*211,000*	*2,110,000*	*2,110*	*30,100,000*	*30,100,000*	*21,100*	*72,700*	*3,010,000*	*24,100*	*NS*	*22,600,000*

* indicates a suggested value.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].
Note "J" indicates slight detection above the level of detection but less than the level of quantification.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:
P-7

Facility/Project Name:	FEC Project Number:
Badger Disposal	170205

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.:		Location Description:
__ __ __ __ __	___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 E/W	South of SB-1

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		3 inches asphalt with basecourse.	SM		*<1
				2				
2	18	NM	NM		Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
				4				
3	12	NM	NM					*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:	FEC Project Number:
P-8	170205

Facility/Project Name: Badger Disposal

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.: __ __ __ __ __

___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 E/W

Location Description: West of SB-1, North of SB-4

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		3 inches asphalt with basecourse.	SM		*<1
				2				
2	18	NM	NM		Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
				4				
3	12	NM	NM					*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:
P-9

Facility/Project Name:	FEC Project Number:
Badger Disposal	170205

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.:		Location Description:
__ __ __ __ __	___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 (E)/W	At SB-1

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		3 inches asphalt with basecourse.	SM		*<1
2	18	NM	NM	2	Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
3	12	NM	NM	4	More sand at base.			*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:	FEC Project Number:
P-10	170205

Facility/Project Name: Badger Disposal

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.: ___ ___ ___ ___ ___

___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 E/W

Location Description: North of SB-1

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		3 inches asphalt with basecourse.	SM		*<1
2	18	NM	NM	2	Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
3	12	NM	NM	4				*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:
P-11

Facility/Project Name:	FEC Project Number:
Badger Disposal	170205

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.:		Location Description:
__ __ __ __ __	___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 E/W	West of SB-5

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		Gravel with trace to some recycled asphalt.	SM		*<1
				2				
2	18	NM	NM		Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
				4				
3	12	NM	NM					*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:
P-12

Facility/Project Name:	FEC Project Number:
Badger Disposal	170205

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.:		Location Description:
__ __ __ __ __	___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 (E)/W	North of SB-5

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		Gravel with trace to some recycled asphalt.	SM		*<1
				2				
2	18	NM	NM		Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
				4				
3	12	NM	NM					*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

FRIESS ENVIRONMENTAL CONSULTING, INC.

Boring Number:
P-13

Facility/Project Name:	FEC Project Number:
Badger Disposal	170205

Boring Drilled By:	Date Drilling Started:	Date Drilling Completed:	Drilling Method:
Giles Engineering Associates, Inc.	6-30-2017	6-30-2017	soil probe

WI Unique Well No.:		Location Description:
__ __ __ __ __	___ 1/4 of SW 1/4 of Section 14 T 8 N. R 21 E/W	Northwest of SB-5

Facility ID:	County:	County Code:	Town/City/or Village:
	Milwaukee	41	Milwaukee

Sample No.	Length Recovered	Blow Counts (N)	Compressive Strength (QP)	Depth in ft bgs	Soil/rock description	USCS Class.	Graphic log	PID Reading
1	24	NM	NM		3 inches asphalt with basecourse.	SM		*<1
2	18	NM	NM	2	Light brown silty CLAY, with trace sand and gravel, moist, no odor.	ML-CL		<1
3	12	NM	NM	4				*<1
				6	End of probehole at 5 feet below ground surface.			
				8	* - indicates sample was submitted for laboratory analysis			
				10				
				12				
				14				
				16				
				18				
				20				
				22				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Friess Environmental Consulting, Inc.

CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # NE 3198

Page 1 of ___

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #:
Account No.:
Quote No.:
Project #: 170205
Sampler: (signature) Trenton J. Ott
Project (Name / Location): Badger

Reports To:	Trenton Ott	Invoice To.	Same
Company	FEC, Inc	Company	
Address	6437 N. Sidney Place	Address	
City State Zip	Milwaukee, WI 53209	City State Zip	
Phone	(414) 228-9815	Phone	
FAX	(414) 228-9816	FAX	

Analysis Requested / **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Dry Weight						PID/ FID
5033330 A	P-7 1-2	6/30/17	AM		X	N	3	Soil	MeOH						X							X		X						
B	P-7 4-5														X							X		X						
C	P-8 1-2														X							X		X						
D	P-8 4-5														X							X		X						
E	P-9 1-2						2		None						X									X						
F	P-9 4-5														X									X						
G	P-10 1-2														X									X						
H	P-10 4-5														X									X						
I	P-11 1-2														X									X						
J	P-11 4-5														X									X						

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Car
Temp. of Temp. Blank ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Trenton J. Ott	2:41	7/7/17	[illegible]	2:41	7/7/17

Received in Laboratory By: [illegible] Time: 10:00 Date 7/8/17

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # NE 3198

Page 2 of 2

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #:
Account No.:
Quote No.:
Project #: 170205
Sampler: (signature) Trenton J. Ott
Project (Name / Location): Badger

Reports To: Trenton Ott	Invoice To: Same
Company FEC, Inc.	Company
Address 1637 N. Sidney Place	Address
City State Zip Milwaukee, WI 53209	City State Zip
Phone (414) 228-9815	Phone
FAX (414) 228-9816	FAX

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Dry Weight						PID/ FID
503330-1	P-12 1-2	6/30/17	AM		X	N	2	Soil	None						X								X	X						
	P-13 1-2	↓	↓		↓	↓	↓	↓	↓						X								X	X						

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: GC
Temp. of Temp. Blank ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Trenton J. Ott	2:41	7/7/17	[illegible]	2:41	7/7/17

Received in Laboratory By: [illegible] Time: 10:00 Date 7/8/17

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

TRENTON OTT
FEC, INC.
6637 N. SIDNEY PLACE
MILWAUKEE, WI 53209

Report Date *18-Jul-17*

Project Name BADGER
Project # 170205
Invoice # E33230

Lab Code 5033230A
Sample ID P-7 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.0	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/13/2017	7/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/13/2017	7/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/13/2017	7/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/13/2017	7/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/13/2017	7/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/13/2017	7/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/13/2017	7/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/13/2017	7/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/13/2017	7/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/13/2017	7/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/13/2017	7/13/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		7/13/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		7/13/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		7/13/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		7/13/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		7/13/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230A
Sample ID P-7 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		7/13/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		7/13/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		7/13/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		7/13/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		7/13/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		7/13/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		7/13/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		7/13/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		7/13/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		7/13/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		7/13/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		7/13/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		7/13/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		7/13/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		7/13/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		7/13/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		7/13/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		7/13/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		7/13/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		7/13/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		7/13/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		7/13/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		7/13/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		7/13/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		7/13/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		7/13/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		7/13/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		7/13/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		7/13/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		7/13/2017	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B		7/13/2017	CJR	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B		7/13/2017	CJR	1
SUR - Toluene-d8	98	Rec %			1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230B
Sample ID P-7 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.3	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/13/2017	7/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/13/2017	7/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/13/2017	7/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/13/2017	7/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/13/2017	7/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/13/2017	7/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/13/2017	7/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/13/2017	7/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/13/2017	7/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/13/2017	7/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/13/2017	7/13/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		7/13/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		7/13/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		7/13/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		7/13/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		7/13/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		7/13/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		7/13/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		7/13/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		7/13/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		7/13/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		7/13/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		7/13/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		7/13/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		7/13/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		7/13/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		7/13/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230B
Sample ID P-7 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		7/13/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		7/13/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		7/13/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		7/13/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		7/13/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		7/13/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		7/13/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		7/13/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		7/13/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		7/13/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		7/13/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		7/13/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		7/13/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		7/13/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		7/13/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		7/13/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		7/13/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		7/13/2017	CJR	1
SUR - Toluene-d8	102	Rec %			1	8260B		7/13/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		7/13/2017	CJR	1
SUR - 4-Bromofluorobenzene	107	Rec %			1	8260B		7/13/2017	CJR	1
SUR - Dibromofluoromethane	95	Rec %			1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230C
Sample ID P-8 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.6	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/13/2017	7/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/13/2017	7/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/13/2017	7/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/13/2017	7/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/13/2017	7/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/13/2017	7/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/13/2017	7/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/13/2017	7/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/13/2017	7/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/13/2017	7/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/13/2017	7/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/13/2017	7/13/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		7/13/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		7/13/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		7/13/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		7/13/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		7/13/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		7/13/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		7/13/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		7/13/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		7/13/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		7/13/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		7/13/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		7/13/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		7/13/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		7/13/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		7/13/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		7/13/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230C
Sample ID P-8 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		7/13/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		7/13/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		7/13/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		7/13/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		7/13/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		7/13/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		7/13/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		7/13/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		7/13/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		7/13/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		7/13/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		7/13/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		7/13/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		7/13/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		7/13/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		7/13/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		7/13/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		7/13/2017	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		7/13/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	96	Rec %			1	8260B		7/13/2017	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		7/13/2017	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230D
Sample ID P-8 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.7	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/13/2017	7/14/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/13/2017	7/14/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/14/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/13/2017	7/14/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/13/2017	7/14/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/14/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/13/2017	7/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/13/2017	7/14/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/13/2017	7/14/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/13/2017	7/14/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/13/2017	7/14/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/13/2017	7/14/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/13/2017	7/14/2017	NJC	1
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		7/13/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		7/13/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		7/13/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		7/13/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		7/13/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		7/13/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		7/13/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		7/13/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		7/13/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		7/13/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		7/13/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		7/13/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		7/13/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		7/13/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		7/13/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		7/13/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		7/13/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230D
Sample ID P-8 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		7/13/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		7/13/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		7/13/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		7/13/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		7/13/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		7/13/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		7/13/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		7/13/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		7/13/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		7/13/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		7/13/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		7/13/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		7/13/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		7/13/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		7/13/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		7/13/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		7/13/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		7/13/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		7/13/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		7/13/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		7/13/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		7/13/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		7/13/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		7/13/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		7/13/2017	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			1	8260B		7/13/2017	CJR	1
SUR - Dibromofluoromethane	95	Rec %			1	8260B		7/13/2017	CJR	1
SUR - Toluene-d8	98	Rec %			1	8260B		7/13/2017	CJR	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230E
Sample ID P-9 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.4	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/13/2017	7/14/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/13/2017	7/14/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/13/2017	7/14/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/14/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/13/2017	7/14/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/13/2017	7/14/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/13/2017	7/14/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/13/2017	7/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/13/2017	7/14/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/13/2017	7/14/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/13/2017	7/14/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/13/2017	7/14/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/13/2017	7/14/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/13/2017	7/14/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230F
Sample ID P-9 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	0.0167 "J"	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	5
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230G
Sample ID P-10 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.0	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230H
Sample ID P-10 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.7	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230I
Sample ID P-11 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.5	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	0.0124 "J"	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	5
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230J
Sample ID P-11 4-5
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.3	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230K
Sample ID P-12 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.8	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	1
Anthracene	0.0156 "J"	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	0.0233 "J"	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	5
Benzo(a)pyrene	0.014 "J"	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	0.0179 "J"	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	0.018 "J"	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	0.044 "J"	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	0.037	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	0.039 "J"	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

Project Name BADGER **Invoice #** E33230
Project # 170205

Lab Code 5033230L
Sample ID P-13 1-2
Sample Matrix Soil
Sample Date 6/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.7	%			1	5021		7/10/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	7/14/2017	7/15/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	7/14/2017	7/15/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	7/14/2017	7/15/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	7/14/2017	7/15/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	7/14/2017	7/15/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	7/14/2017	7/15/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	7/14/2017	7/15/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	7/14/2017	7/15/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	7/14/2017	7/15/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	7/14/2017	7/15/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	7/14/2017	7/15/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	7/14/2017	7/15/2017	NJC	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
5	The QC blank not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature